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ABSTRACT

IDENTIFIERS

This study assesses the academic performance of Capital Community-Technical College (CCTC) students who transferred to senior institutions in Connecticut and neighboring states between the academic years of 1993-94 and 1996-97. It was designed to address the students' experience at CCTC as compared to the students' experiences at their senior institutions, and the relationships between the CCTC experience and the outcomes at the senior institutions. A total of 27 senior institutions participated in the study. A questionnaire was distributed to former CCTC students to measure the extent to which they have achieved their goals, and to gather information on the students' perceptions of their satisfaction with the quality of academic and student services provided by CCTC. A total of 101 students responded to the questionnaire. The study found that 61.4% of respondents achieved their educational goals "to a great extent", while an additional 31.7% achieved their educational goals "to some extent." In regards to student and academic services, "grade reporting/transcript processing" and "course content" received the highest ratings (80.6% and 88.3% respectively), while "counseling for program/course selection" and "instructional support for my curriculum" received the lowest rankings (31.7% and 27.2% respectively). Tabled results are presented for each of the 12 questions. The survey instrument, the list of participating senior institutions, CCTC's mission statement, and a list of majors offered at CCTC are appended. (TGO)



Capital Community-Technical College

Organizational Effectiveness Through Assessing Institutional Outcomes: Measuring the Transfer Function at CCTC

Ira Rubenzahl, President

The Office of Institutional Research March 31, 1998

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Capital Community-Technical College

Organizational Effectiveness
Through Assessing Institutional Outcomes:
Measuring the Transfer Function at CCTC

The Office of Institutional Planning, Research, and Assessment

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Academic Performance of CCTC Students Transferring to Institutions of Higher Education

Introduction:

Institutional effectiveness is the process of setting institutional mission, formulating institutional goals, developing methodologies to evaluate the extent to which those goals are being achieved, and finally, using the results of the evaluation to improve institutional mission (NEASC, 1995). Demands for public resources and greater public attention to higher education accountability and effectiveness creates greater need to measure transfer success of community college students (Bender, 1977; Bowen, 1974; Kean, 1988; Barkley, 1993). One of the major components of the Capital Community-Technical College's mission statement is that of preparing students for transfer to senior institutions of higher education (see Appendix A: CCTC Mission Statement, 1997).

Methodology:

Design:

This study was designed to address: a) the students' experience at CCTC; b) the students' experience at senior institutions; c) the relationships between the CCTC experience and the outcomes at the senior institutions. Descriptive statistics and exploratory data analysis were used to respond to parts (a) and (b) of the design. Inferential statistics and qualitative research methods were used to respond to part (c) of the design.

This study's purpose was to collect information about the academic performance of CCTC students who transferred to senior institutions in Connecticut and neighboring states between the academic years of 1993-94 and 1996-97. The study was comprised of two related, yet separate components.

The first component of the study began in March 1997 by collecting data and information from colleges that had received transfer students from CCTC. Fifty-eight public and private four-year institutions were contacted by mail (three mailings, including an original letter and two follow-ups) with 27 colleges responding (46.6%). Demographic information and data on academic performance of former CCTC students were provided by 13 institutions. See Appendix B for the names of institutions contacted and for the types of data provided by these senior institutions. A transfer database was created for the former CCTC students using ACCESS and SPSS.

In the second component of this study, the data obtained from senior institutions on former CCTC students was merged with the CCTC student information database (MARKOS). A questionnaire was designed and mailed to former CCTC students listed



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in the transfer database (see Appendix D). The purpose of the questionnaire was two folds: 1) to examine the students' goals and to measure the extent to which they have achieved their goals; 2) to gather information on the students' perceptions of their satisfaction with the quality of academic and student services provided by CCTC. Two mailings (an original and a follow-up) were sent to former CCTC students. The response rate was 32.2 percent.

Data Elements:

Ewell, 1987, believes that the best approach to evaluating student transfer involves the creation of tracking systems based on research files constructed for following the progress of students over time. A number of decisions must be made including identifying who will be tracked, how long they will be tracked, and which data elements to include.

Variables used in this research are:

Demographic Variables;

Gender, ethnicity, age at enrollment to senior institution.

Academic Variables;

Grade point average at CCTC,

Grade point average at the senior institutions,

First semester grade point average at the senior institutions,

Credit hours completed at CCTC for all transfer students,

Credit hours completed at CCTC for transfer students who graduated before transferring to senior institutions,

Curriculum of study at CCTC,

Curriculum of study at senior institutions.

Questions for the Study:

This study was designed to answer the following questions:

- Q1. What are the demographic characteristics of former CCTC students who transfer to senior institutions?
- Q2. Where do former CCTC students transfer?
- Q3. Do transfer students meet their academic objectives?
- Q4. What is the credit hour completion pattern by CCTC students prior to transferring to senior institutions?
- Q5. What is the credit hour completion pattern by CCTC students who graduated prior to transferring to senior institutions.
- Q6. What is the credit hour acceptance pattern of transfer students by senior institutions?
- Q7. What are the majors of former CCTC students prior to transfer, based on gender and ethnicity?



- Q8. What is the graduation pattern of former CCTC students prior to transfer, based on major, gender, and ethnicity?
- Q9. Are the transfer students academically successful at CCTC and at senior institutions?
- Q10. What is the credit hour completion pattern of former CCTC students after transferring to senior institutions?
- Q11. How do former CCTC students rate the quality of academic and student services at CCTC?
- Q12. Does gender or ethnicity make a difference in the academic achievement of students who transfer to senior institutions?

Limitations of the Study:

A few limitations were present in this study and several factors need to be considered when using the results of this study. First, the data is limited only to students who transferred to senior institutions during the academic years of 1993-94 through 1996-97. Second, the list of receiving institutions was retrieved from the transcript files of the CCTC students who applied to these institutions. In other words, the data on transfer students is limited to the 58 baccalaureate granting institutions in Connecticut and its neighboring states that received the researcher's invitation. Third, the response rate from the senior institutions was low. Of the 31 colleges who did not reply, approximately one third had called and informed us that their college did not have the data management and computer information data capability to respond to the research request. And approximately one third called and informed us that due to the nature of data and confidentiality issues in the state of Connecticut, they were not willing to share their student information with the researcher. Of the 13 institutions that did reply, several sent inaccurate or inadequate data.

Overview of the Data Base:

| Phase I. | <u>N</u> | <u>%</u> |
|---|----------|----------|
| Total number of transfer students in database | 464 | 100.0 |
| Students with complete information | 292 | 62.9 |
| Students with 12 or more credits and complete information | 275 | 59.3 |
| Students with incomplete or erroneous information | 172 | 37.0 |
| Students who graduated before transfer | 242 | 52.2 |



| Phase II. | N | % |
|--|-----|-------|
| Number of Student Surveys Sent* | 366 | 100.0 |
| Students responded | 101 | 27.6 |
| Students moved: do not have up-to-date addresses | 51 | |
| Student attended too long ago | . 1 | |
| Student did not attend | 1 | |
| Student is in Europe | 1 | |
| Students did not respond | 211 | 57.6 |

^{*} Addresses were not available for 98 of the students in the transfer database.



Analysis:

Q1. What are the demographic characteristics of former CCTC students who transfer to senior institutions?

The demographic characteristics of the former CCTC students who transferred to senior institutions are presented in Table 1. Of the total CCTC transfer students reported by senior institutions during the academic years 1993-94 through 1996-97, approximately 38.4 percent were male and 61.6 percent female. The ethnic background of the transfer students was reported as 45.0 percent White, 28.7 percent Black, 9.9 percent Hispanic, 8.6 percent others, and 7.8 percent of unknown category. Except for the "other" ethnic category, female students transferring to senior institutions have outnumbered male students. The percentage of Hispanic students who transferred was proportionally lower than the percentage of headcount enrollment among all ethnic groups, followed by Black students. On the contrary, the percentage of White and unknown students who transferred was proportionally higher than the percentage of headcount enrollment among all ethnic groups.

The age categories of the transfer students consisted of approximately 1.1 percent below age 19, 51.8 percent between age 20 and 29, 33.3 percent between age 30 and 39, 12.0 percent between age 40 and 49, and 1.8 percent above 50 years of age. The results of the data analysis indicate that a significant proportion of the students (81.6%) who transferred to senior institutions were between the ages of 20 and 39 years old.



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Table 1. Demographic Characteristics of Former CCTC Students who Transferred to Senior Institutions (Academic Years 1993 through 1996)

| Student | | | | | | To | tal |
|---------|-------|--------------|----------|-------|---------|-------|-----|
| Group | White | <u>Black</u> | Hispanic | Other | Unknown | % | N |
| Male | 17.9 | 10.3 | 3.2 | 4.7 | 2.2 | 38.4 | 178 |
| Female | 27.2 | 18.3 | 6.7 | 3.9 | 5.6 | 61.6 | 286 |
| Totals | 45.0 | 28.7 | 9.9 | 8.6 | 7.8 | 100.0 | 464 |

Table 1a. Demographic Characteristics of CCTC Students, Fall 1995

| Student | nt | | | | To | tal | |
|---------|-------|-------|----------|-------|---------|-------|------|
| Group | White | Black | Hispanic | Other | Unknown | º/o | N |
| | | | | | • | | |
| Male | 16.4 | 10.4 | 5.1 | 4.0 | 0.5 | 36.0 | 1015 |
| Female | 21.1 | 24.9 | 13.5 | 3.9 | 0.0 | 64.0 | 1819 |
| Totals | 37.5 | 35.4 | 18.6 | 8.0 | 0.5 | 100.0 | 2834 |

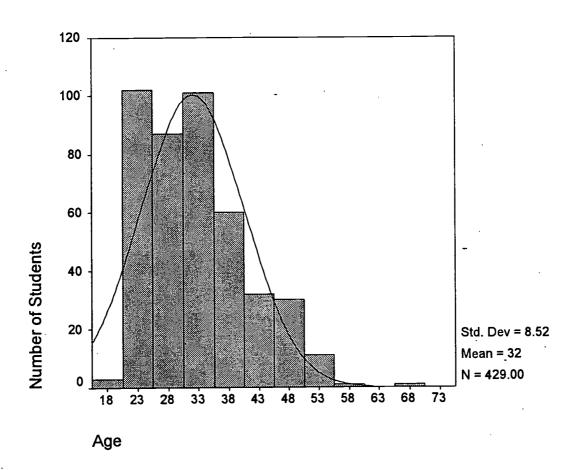


Table 2. Age Distribution of Former CCTC Students at the Time of Entering Senior Institutions, Based on Gender (Academic Years 1993 through 1996)

| Student Group | 0 - 19 | 20 - 29 | 30 - 39 | 40 - 49 | 50 + |
|------------------|--------|---------|---------|---------|------|
| Male | 0.2 | 20.5 | 14.0 | 4.0 | 0.2 |
| Female | 0.7 | 23.5 | 23.5 | 10.5 | 2.8 |
| Totals | 0.9 | 44.1 | 37.5 | 14.5 | 3.0 |

Total number of students = 429

Figure 1. Age Distribution of Former CCTC Students at the Time of Entering Senior Institutions





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O2. Where do former CCTC students transfer?

Table 3 presents data on the senior institutions that provided information on former CCTC students. Of the institutions that responded to this study, Central Connecticut State University reported the highest number of transfers (49.4 percent), followed by University of Hartford (30.0 percent), Regents College (10.1 percent), Trinity College (5.0 percent), Teikyo Post University (2.6 percent), Albertus Magnus College (1.3 percent), Sacred Heart University (0.4 percent), Columbia University (0.4 percent), Wesleyan University (0.2 percent), University of Massachusetts at Amherst (0.2 percent), University of Bridgeport (0.2 percent), and State University of New York at Buffalo (0.2 percent).

Table 3. Senior Institutions to which Former CCTC Students
Transferred
(Academic Years 1993 through 1996)

| University/College | City | State | Students (%) |
|---|---------------|-------|-----------------|
| Central Connecticut State University | New Britain | CT | 49.4 |
| University of Hartford | West Hartford | CT | 30.0 |
| Regents College | Albany | NY | 10.1 |
| Trinity College | Hartford | CT | 5.0 |
| Teikyo Post University | Waterbury | CT | 2.6 |
| Albertus Magnus College | New Haven | CT | 1.3 |
| Sacred Heart University | Fairfield | CT | 0.4 |
| Columbia University | New York | NY | 0.4 |
| Wesleyan University | Middletown | CT | 0.2 |
| University of Massachusetts at Amherst | Amherst | MA | 0.2 |
| University of Bridgeport | Bridgeport | CT | 0.2 |
| State University of New York at Buffalo | Buffalo | NY | 0.2 |



Q3. Do transfer students meet their educational goal(s)?

The following is the result of data analysis on the intended educational goals and the academic achievements reported by former CCTC students who transferred to senior institutions. Of the total number of students (101) who responded to the transfer survey, 71.3 percent indicated that their intended educational goal at the time they enrolled at CCTC was to obtain an Associate degree and 36.6 percent indicated that they intended to prepare for transfer to another college. Of those who transferred, 16.8 percent reported that their future educational plans were to seek a Ph.D., 40.6 percent a Master's degree, and 35.6 percent a Bachelor's degree. It is important to note that 93.1 percent of the former CCTC students who transferred to senior institutions acknowledged that they have met their educational goals to some extent (31.7 percent), or to a great extent (61.4 percent).

Students' Perceptions on Their Educational Goals and Achievements

Intended educational goal at the time you initially enrolled at CCTC:*

| 7 1.3% | To obtain an Associate Degree |
|---------------|--|
| 2.0% | To obtain a certificate |
| 36.6% | To prepare for transfer to another college |
| 2.0% | To complete a Vocation/Technical Program |
| 2.0% | To obtain or maintain a certification |
| 6.9% | To take some job-related courses |
| 5.9% | To take some courses for personal satisfaction |
| 5.9% | Other . |

Amount of education planned for the future:*

| 16.8% | Ph.D. and higher |
|-------|-----------------------------------|
| 40.6% | Master's degree |
| 35.6% | Bachelor's degree |
| 2.0% | Associate degree |
| 2.0% | Professional degrees and diplomas |
| 1.0% | None |
| 5.9% | Other |

The extent to which you have achieved your educational goal(s):

| 61.4% | To a great exten |
|-------|------------------|
| 31.7% | To some extent |
| 4.0% | Uncertain |
| 0.0% | Hardly at all |
| 1.0% | Not at all |

^{*} Student could select more than one choice (total is greater than 100%).



Q4. What is the credit hour completion pattern by CCTC students prior to transferring to senior institutions?

Table 4 and Figures 2 and 4 present data on the number of credit hours earned by former CCTC students prior to transfer to senior institutions. The results of data analysis indicate considerable variability in the number of credit hours earned by students at CCTC prior to transferring to baccalaureate institutions.

Transfer students' exposure to Capital Community-Technical College was substantial. Approximately 3.1 percent of students had earned less than 6 credit hours and 58.9 percent of students had earned over 60 credit hours at CCTC prior to transfer. Fewer than 8.2 percent had earned less than 12 credit hours and a significant proportion of students (20.5 percent) had earned 80 or more credit hours - well beyond the minimum requirement for graduation in the Associate degree program at CCTC.

The modal observation for the number of earned credit hours was between 60 and 79. In other words, the highest percentage (38.4 percent) of transfer students had earned between 60 and 79 credit hours. The percentage of female students in the modal group was greater than male students (23.3 percent female versus 15.1 percent male). And, in contrast to the ethnic proportion of transfer students (28.4 percent Black students versus 43.8 percent White students) significantly more Black students had earned the modal credits of 60 to 79 (13.7 percent Black students versus 13.7 percent White students) prior to transfer to senior institutions.

The results of the data analysis also indicate that the highest percentage of students (22.5 percent) who transferred with 60 to 79 credit hours was in the age range of 20 to 29.



Table 4. Credit Hours Earned by Former CCTC Students (292) Prior ...

Transfer to Senior Institutions
(Academic Years 1993 through 1996)

| Student | Totals | Credit Hours | | | | | | | |
|------------|--------|--------------|---------------|---------|---------|-----------------|----------------|----------------|------|
| Group | | 6 or less | <u>7 - 12</u> | 13 - 24 | 25 - 36 | <u> 37 - 48</u> | <u>49 - 59</u> | <u>60 - 79</u> | 80 + |
| All | 100.0 | 3.1 | 5.1 | 7.2 | 7.2 | 8.6 | 9.9 | 38.4 | 20.5 |
| Gender: | | | | | | | | | |
| Male | 42.1 | 0.3 | 2.4 | 3.8 | 2.7 | 3.1 | 2.4 | 15.1 | 12.3 |
| Female | 57.9 | 2.7 | 2.7 | 3.4 | 4.5 | 5.5 | <i>7</i> .5 | 23.3 | 8.2 |
| Ethnicity: | | | | | ÷ | | | | |
| White | 43.8 | 1.7 | 2.4 | 4.8 | 4.8 | 3.1 | 3.8 | 13.7 | 9.6 |
| Black | 28.4 | 1.0 | 1.0 | 1.7 | 1.4 | 1.7 | 3.4 | 13.7 | 4.5 |
| Hispanic | 9.6 | 0.0 | 0.7 | 0.3 | 0.3 | 1.0 | 1.7 | 4.1 | 1.4 |
| Others | 18.2 | 0.3 | 1.0 | 0.3 | 0.7 | 2.7 | 1.0 | 6.8 | 5.1 |
| Age:* | | _ | | | | | | | |
| < 20 | 1.1 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 - 29 | 51.8 | 1.4 | 2.5 | 4.3 | 4.0 | 4.7 | 6.5 | 22.5 | 5.8 |
| 30 - 39 | 33.3 | 0.7 | 1.1 | 1.8 | 1.1 | 3.3 | 2.2 | 10.1 | 13.0 |
| 40 - 49 | 12.0 | 0.0 | 0.7 | 0.7 | 1.8 | 0.7 | 1.1 | 4.3 | 2.5 |
| 50 + | 1.8 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 1.1 | 0.0 |

^{* 16 (5.5%)} of the students are of unknown age and not included in the age section of this table.



Q5. What is the credit hour completion pattern by CCTC students who gradiented prior to transferring to senior institutions?

Table 5 presents data on the percentage distribution of CCTC credit hours completed by the students who graduated prior to transfer to senior institutions (242 students). Table 5a represents data on the percentage distribution of CCTC credit hours completed by the students who graduated from CCTC prior to transfer versus the entire sample of CCTC transfer students.

The results of the data analysis indicate even more variability in the number of credit hours earned by students who graduated from CCTC prior to transfer than the credit hours earned by the students in the entire sample of the transfer database. The credit hour completion pattern for the students who graduated prior to transfer was relatively more skewed to the lower end of credit completion than the credit hour completion pattern of the entire sample of transfer students. In other words, the average number of credit hours completed by students who graduate prior to transfer to senior institutions is higher than those of the entire transfer sample.

Graduate transfer students' exposure to the college was substantial. Approximately 0.4 percent of CCTC graduate students had earned less than 6 credit hours and 74.0 percent had earned over 60 credit hours at CCTC prior to transfer to senior institutions. A claim that three-fourths of the students stayed at Capital Community-Technical College long enough to earn the equivalent of at least two years of full-time study. Slightly over one-fourth of graduate students had earned between 13 and 59 credit hours and a little less than half had earned between 60 and 79 credit hours prior to transfer. It is also important to note that approximately 25 percent of the graduate students had earned 80 or more credit hours - well beyond the minimum requirement for graduation in any certificate or degree program at CCTC.

The modal observation for the number of credit hours earned was between 60 and 79. Approximately just under half of the transfer students had earned between 60 and 79 credit hours. The percentage of female students in the modal group was greater than male students (31.4 percent for female versus 18.2 percent for male). And, in contrast to the ethnic proportion of graduates who transferred to senior institutions (30.6 Black students versus 39.7 percent White students), significantly more Black students earned the modal credit hours of between 60 and 79 (19.4 percent Black students versus 14.9 percent White students).

The results of the data analysis also indicate that the highest percentage of graduates (22.6 percent) who transferred in the modal group were in the age range of 20 to 29.



Table 5. Credit Hours Earned by Former CCTC Students who Graduated (242) Prior to Transfer to Senior Institutions (Academic Years 1993 through 1996)

| Student | Totals | | | | Credit F | lours | | | |
|-------------------------|--------|-----------|--------|---------|----------|---------|---------|---------|------|
| Group | ļ | 6 or less | 7 - 12 | 13 - 24 | 25 - 36 | 37 - 48 | 49 - 59 | 60 - 79 | 80 + |
| All | 100.0 | 0.4 | 0.0 | 0.4 | 5.0 | 7.0 | 13.2 | 49.6 | 24.4 |
| Gender: | | | | | | | | | |
| Male | 40.1 | 0.4 | 0.0 | 0.0 | 2.9 | 1.2 | 2.5 | 18.2 | 14.9 |
| Female | 59.9 | 0.0 | 0.0 | 0.4 | 2.1 | 5.8 | 10.7 | 31.4 | 9.5 |
| Ethnicity: | | | | | | | | | |
| White | 39.7 | 0.0 | 0.0 | 0.4 | 2.9 | 4.5 | 5.4 | 14.9 | 11.6 |
| Black | 30.6 | 0.0 | 0.0 | 0.0 | 1.2 | 0.8 | 3.7 | 19.4 | 5.4 |
| Hispanic | 11.2 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8 | 2.1 | 6.2 | 1.7 |
| Others | 18.6 | 0.4 | 0.0 | 0.0 | 0.4 | 0.8 | 2.1 | 9.1 | 5.8 |
| Age:* | | | | | | | | | |
| < 20 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 20 - 29 | 38.9 | 0.0 | 0.0 | 0.0 | 1.4 | 2.3 | 5.9 | 22.6 | 6.8 |
| 30 - 39 | 42.5 | 0.0 | 0.0 | 0.5 | 1.4 | 3.6 | 4.1 | 18.1 | 14.9 |
| 4 0 - 4 9 | 14.5 | 0.0 | 0.0 | 0.0 | 1.8 | 0.5 | 1.8 | 7.2 | 3.2 |
| 50 + | 3.6 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.5 | 1.4 | 0.5 |

 ^{21 (8.7%)} of the students are of unknown age and not included in the age section of this table.

Table 5a. Comparison of the Credit Hours Earned by Former CCTC Students who Transfer to Senior Institutions after Graduation (242) Versus the Entire Usable Sample of Transfer Students (292) (Academic Years 1993 through 1996)

| Student | Totals | Credit Hours | | | | | | | | |
|------------------|--------|--------------|--------|---------|---------|---------|---------|---------|------|--|
| Group | | 6 or less | 7 - 12 | 13 - 24 | 25 - 36 | 37 - 48 | 49 - 59 | 60 - 79 | 80 + | |
| Usable Sample | 100.0 | 3.1 | 5.1 | 7.2 | 7.2 | 8.6 | 9.9 | 38.4 | 20.5 | |
| Graduates | 100.0 | 0.4 | 0.0 | 0.4 | 5.0 | 7.0 | 13.2 | 49.6 | 24.4 | |



Q6. What is the credit hour acceptance pattern of transfer students by senior institutions?

Overall, the number of transfer credits accepted by the senior institutions was lower than the number of credits earned at Capital Community-Technical College. Table 6, Figure 3, and Figure 5 present the data on the number of transfer credits accepted by the senior institutions.

The average number of credit hours accepted by senior institutions was 44 with a standard deviation of 29.1 compared to the average number of credit hours completed prior to transfer of 60 with a standard deviation of 29.4. This constitutes a loss of 16 credits of community college course work. This may suggest that senior institutions do not readily consider community college credits as college level work appropriate for transfer, especially in the case of remedial courses. This may also suggest lack of strong articulation agreements between state community colleges and senior institutions. The loss of community college credits upon transfer requires further examination.

Data analysis on credit hour completion and acceptance using the results of the box-and-whisker plot (Tukey, 1971) is presented in Figures 4 and 5. Variations in the number of credit hours completed at CCTC and credit hours accepted by senior institutions by ethnicity was greater for White students followed by the "others" category. The credit hour completion and acceptance for Hispanic students at CCTC had the least variation, followed by Black students.



Credit Hours Accepted by Senior Institutions (292) (Academic Years 1993 through 1996) Table 6.

| Student | Totals | | | | Credit I | Hours | | | |
|------------|--------------|------------|--------|---------|----------|-------------|-------------|------------|------------|
| Group | | 6 or less* | 7 - 12 | 13 - 24 | 25 - 36 | 37 - 48 | 49 - 59 | 60 - 79 | 80 + |
| All | 100.0 | 16.4 | 3.5 | 9.1 | 9.8 | 11.9 | 14.0 | 25.2 | 10.1 |
| Gender: | | | | | | | | | |
| Male | 42.0 | 3.5 | 1.7 | 4.9 | 3.8 | 3.1 | 7.3 | 10.0 | |
| Female | 58.0 | 12.9 | 1.7 | 4.2 | 5.9 | 3.1 8.7 | 7.3 6.6 | 10.8 | 6.6 |
| Ethnicity: | | | | 1.2 | | | 0.0 | 14.3 | 3.5 |
| White | 43.7 | 8.4 | 1.7 | 5.2 | 4.5 | 5.2 | 3.5 | 10.0 | 4.0 |
| Black | 28.3 | 4.9 | 0.7 | 2.1 | 1.7 | 2.4 | 5.9 | 10.8 | 4.2 |
| Hispanic | 9.4 | 0.3 | 0.7 | 0.7 | 1.7 | 0.7 | 2.1 | 8.4 | 2.1 |
| Others | 18.5 | 2.8 | 0.3 | 1.0 | 1.7 | 3.5 | 2.1 | 2.4 | 0.7 |
| Age:** | | | | | 1.7 | | 2.4 | 3.5 | 3.1 |
| < 20 | 1.1 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 20 - 29 | 52.2 | 5.2 | 2.2 | 7.4 | 5.2 | 7.4 | 0.0 10.4 | 0.0 | 0.0 |
| 30 - 39 | 32.6 | 5.9 | 0.4 | 0.7 | 2.2 | 3.7 | | 11.9 | 2.6 |
| 40 - 49 | 12.2 | 3.3 | 0.4 | 0.0 | 2.2 | 1.1 | 2.2 | 10.4 | 7.0 |
| 50 + | 1.9 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 2.2 0.0 | 2.2 1.1 | 0.7 0.0 |

Several of the Senior Institutions do not accept transfer credits until the student has matriculated.



^{** 16 (5.5%)} of the students are of unknown age and not included in the age section of this table.

Figure 2. Credit Hours Completed at CCTC Prior to Transfer

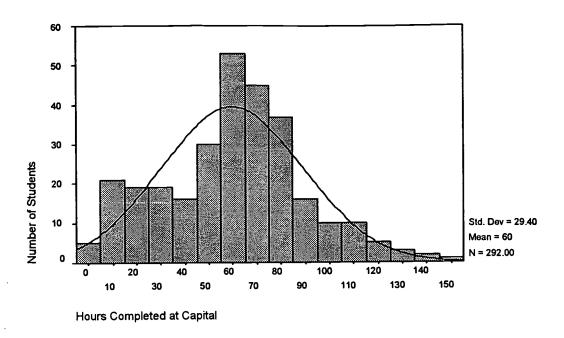
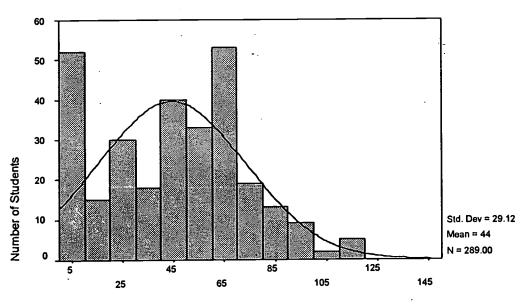


Figure 3. Credit Hours Accepted at Senior Institutions



Hours Accept at Senior Institutions



Figure 4. Credit Hours Completed at CCTC Prior to Transfer, by Ethnicity

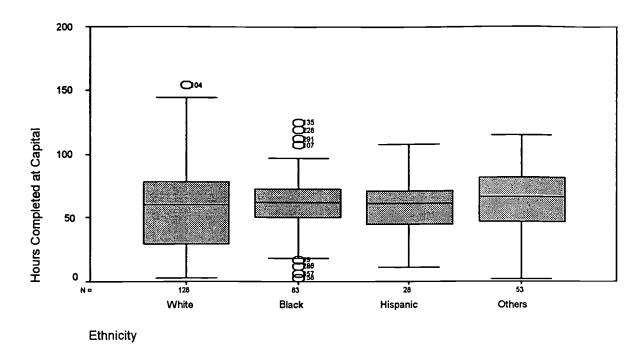


Figure 5. Credit Hours Accepted at Senior Institutions, by Ethnicity

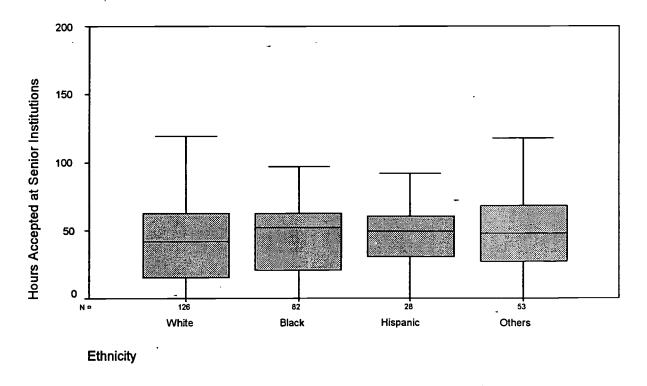




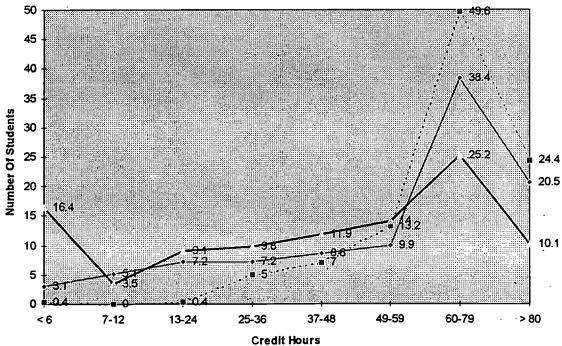
Table 6a. Comparison of Credit Hours Completed at CCTC and Credit Hours Accepted by Senior Institutions (Academic Years 1993 through 1996)

| Student | Totals | Credit Hours | | | | | | | |
|--|--------|--------------|--------|---------|---------|---------|---------|---------|------|
| Group | | 6 or less | 7 - 12 | 13 - 24 | 25 - 36 | 37 - 48 | 49 - 59 | 60 - 79 | 80 + |
| Credit Hours Completed by All Transfers | 100.0 | 3.1 | 5.1 | 7.2 | 7.2 | 8.6 | 9.9 | 38.4 | 20.5 |
| Credit Hours Completed by Graduates | 100.0 | 0.4 | 0.0 | 0.4 | 5.0 | 7.0 | 13.2 | 49.6 | 24.4 |
| Credit Hours Accepted by Senior Institutions | 100.0 | 16.4 | 3.5 | 9.1 | 9.8 | 11.9 | 14.0 | 25.2 | 10.1 |

Figure 6. Credit Hour Comparison between CCTC and Senior Institutions

CCTC All Students, Earned







Q7. What are the majors of former CCTC students prior to transfer, based on gender and ethnicity?

Table 7 presents data on the curricula majors of former CCTC students (464), prior to transfer to senior institutions, based on gender and ethnicity.

Approximately 60 percent of the students who transferred to senior institutions had matriculated into five academic majors and slightly less than 18 percent of transfer students had enrolled with a non-degree status. The highest percentage of students who transferred to senior institutions were matriculated in the following majors: Liberal Arts (31.9 percent), Nursing (15.1 percent), Accounting (4.5 percent), and Data Processing (4.5 percent). On the contrary, the lowest percentage of students who transferred to senior institutions were matriculated in the following majors: Professional Secretary (0.2 percent), Marketing Management (0.2 percent), Labor Studies Certificate (0.2 percent), General Engineering Technology (0.2 percent), and Electrical and Computer Engineering Technology (0.2 percent).



Table 7. CCTC Majors of Students who Transferred to Senior Institutions (Academic Years 1993 through 1996)

| Major | Male | Female | White | Black | Hispanic | Other | Total |
|--|-------|--------|-------|-------|----------|-------|-------|
| Liberal Arts | 10.3 | 21.6 | 12.7 | 10.1 | 4.3 | 2.8 | 31.9 |
| Non-Degree | 6.7 | 11.2 | 9.3 | 4.7 | 0.9 | 0.2 | 17.9 |
| Nursing | 1.7 | 13.4 | 8.4 | 3.4 | 0.4 | 0.4 | 15.1 |
| Accounting | 1.7 | 2.8 | 1.3 | 2.2 | 0.2 | 0.4 | 4.5 |
| Data Processing | 1.5 | 3.0 | 0.6 | 3.0 | 0.4 | 0.4 | 4.5 |
| Electrical Engineering Technology | 3.9 | 0.2 | 2.6 | 0.4 | 0.0 | 1.1 | 4.1 |
| Architectural Engineering Technology | 1.5 | 1.3 | 1.9 | 0.2 | 0.6 | 0.0 | 2.8 |
| Manufacturing Engineering Technology | 2.8 | 0.0 | 1.7 | 0.2 | 0.0 | 0.9 | 2.8 |
| Management | 1.3 | 1.3 | 1.1 | 1.3 | 0.2 | 0.0 | 2.6 |
| Business Management | 0.6 | 1.1 | 0.4 | 0.2 | 0.4 | 0.0 | 1.7 |
| Mechanical Engineering Technology | 1.7 | 0.0 | 1.1 | 0.0 | 0.2 | 0.2 | 1.7 |
| Civil Engineering Technology | 1.1 | 0.2 | 0.9 | 0.0 | 0.2 | 0.2 | 1.3 |
| Computer Engineering Technology | 0.9 | 0.4 | 0.6 | 0.2 | 0.0 | 0.4 | 1.3 |
| Chemical Engineering Technology | 0.4 | 0.6 | 0.2 | 0.2 | 0.0 | 0.6 | 1.1 |
| Early Childhood Education | 0.0 | 0.9 | 0.0 | 0.4 | 0.4 | 0.0 | 0.9 |
| Administrative Assistant | 0.0 | 0.6 | 0.2 | 0.4 | 0.0 | 0.0 | 0.6 |
| Allied Health Administration Certificate | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| EMT/Paramedic Certificate | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| Executive Secretary | 0.0 | 0.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.4 |
| General Studies | 0.0 | 0.4 | 0.0 | 0.2 | 0.2 | 0.0 | 0.4 |
| Office Administration | - 0.0 | 0.4 | 0.0 | 0.2 | 0.2 | 0.0 | 0.4 |
| Radiology Technology | - 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| Accounting Certificate | 0.0 | 0.2 | 0.0 | . 0.2 | 0.0 | 0.0 | 0.2 |
| Computer Programming | 0.0 | 0.2 | 0.2 | 0.0 | | - 0.0 | 0.2 |
| Computer Programming Certificate | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| Computer Technology Certificate | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| Computer-Aided Drafting Certificate | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 |
| Data Processing Technology | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| Electrical & Comp Engineering Tech | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| General Engineering Technology | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Labor Studies Certificate | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| Marketing Management | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Professional Secretary | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Totals | 38.4 | 61.6 | 45.0 | 28.7 | 9.1 | 8.6 | 100.0 |



Q8. What is the graduation pattern of former CCTC students prior to transfer, based on major, gender, and ethnicity?

Table 8 presents data for the graduation pattern of former CCTC students who transferred to senior institutions during the academic years of 1993-94 through 1996-97. Of the 464 students who were reported in our transfer database, 242 (52.2 percent) had graduated from CCTC in a certificate or associate's degree program prior to transfer.

Approximately three-fourths (76.4 percent) of the students who graduated from CCTC prior to transferring to senior institutions were matriculated in the following majors:

| Major | Male | Female | White | Black | Hispanic | Other | Total |
|--------------------------------------|------|--------|-------|-------|----------|-------------|-------|
| Liberal Arts | 10.3 | 17.8 | 7.4 | 10.7 | 4.5 | 2 .9 | 28.1 |
| Nursing | 2.9 | 22.3 | 14.0 | 5.4 | 0.4 | 0.8 | 25.2 |
| Electrical Engineering Technology | 7.0 | 0.0 | 4.5 | 0.8 | 0.0 | 1.7 | 7.0 |
| Accounting | 2.5 | 4.1 | 2.1 | 3.3 | 0.0 | 0.4 | 6.6 |
| Data Processing | 1.2 | 4.5 | 0.4 | 4.1 | 0.4 | 0.8 | 5.8 |
| Manufacturing Engineering Technology | 3.7 | 0.0 | 2.1 | 0.0 | 0.0 | 1.7 | 3.7 |

Female graduates who transferred outnumbered male graduates who transferred by approximately 60 to 40 which was proportionally lower than total number of transfers (61.6% female versus 38.4% male). The percentage of White students (39.7 percent) who graduated prior to transfer was greater than the percentage of Black students (30.6 percent), followed by Hispanic students (10.3 percent). However, proportionally more Black students than White graduated prior to transfer compared to the total number of transfers (28.7% Black versus 45.0% White).



Table 8. CCTC Majors of Students who Graduated Prior to Transfer to Senior Institutions (Academic Years 1993 through 1996)

| Major | Male | Female | White | Black | Hispanic | Other | Total |
|--------------------------------------|------|--------|-------|-------|----------|-------|-------|
| Liberal Arts | 10.3 | 17.8 | 7.4 | 10.7 | 4.5 | 2.9 | 28.1 |
| Nursing | 2.9 | 22.3 | 14.0 | 5.4 | 0.4 | 0.8 | 25.2 |
| Electrical Engineering Technology | 7.0 | 0.0 | 4.5 | 0.8 | 0.0 | 1.7 | 7.0 |
| Accounting | 2.5 | 4.1 | 2.1 | 3.3 | 0.0 | 0.4 | 6.6 |
| Data Processing | 1.2 | 4.5 | 0.4 | 4.1 | 0.4 | 0.8 | 5.8 |
| Manufacturing Engineering Technology | 3.7 | 0.0 | 2.1 | 0.0 | 0.0 | 1.7 | 3.7 |
| Management | 1.7 | 1.7 | 1.2 | 1.7 | 0.4 | 0.0 | 3.3 |
| Business Management | 0.8 | 1.2 | 0.0 | 0.4 | 0.8 | 0.0 | 2.1 |
| Civil Engineering Technology | 2.1 | 0.0 | 1.2 | 0.0 | 0.4 | 0.4 | 2.1 |
| Mechanical Engineering Technology | 2.1 | 0.0 | 1.2 | 0.0 | 0.4 | 0.0 | 2.1 |
| Architectural Engineering Technology | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.0 | 1.7 |
| Chemical Engineering Technology | 0.8 | 0.8 | 0.4 | 0.4 | 0.0 | 0.8 | 1.7 |
| Administrative Assistant | 0.0 | 1.2 | 0.4 | 0.8 | 0.0 | 0.0 | 1.2 |
| Early Childhood Education | 0.0 | 1.2 | 0.0 | 0.4 | 0.8 | 0.0 | 1.2 |
| Computer Engineering Technology | 0.8 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 | 0.8 |
| EMT/Paramedic Certificate | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| Executive Secretary | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 0.0 | 0.8 |
| Non-Degree | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 | 0.0 | 0.8 |
| Office Administration | 0.0 | 0.8 | 0.0 | 0.4 | 0.4 | 0.0 | 0.8 |
| Radiology Technology | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| Accounting Certificate | 0.0 | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 |
| Computer Programming Certificate | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| Data Processing Technology | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| General Engineering Technology | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 |
| General Studies | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 |
| Labor Studies Certificate | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| Marketing Management | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 |
| Professional Secretary | 0.0 | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 |
| Totals | 40.1 | 59.9 | 39.7 | 30.6 | 10.3 | 9.9 | 100.0 |



Q9. Are the transfer students academically successful at CCTC and at senior institutions?

Table 9 and Figures 7, 8, 9 and 10 present data on the cumulative GPA of transfer students at CCTC as well as their cumulative and first semester GPA at the senior institutions. Overall, the students achieved grades well above passing levels at both CCTC and the transferring institutions. As a group, they achieved an overall GPA of 2.97 at CCTC compared to an overall GPA of 2.54 at the senior institutions. In addition, their overall first semester GPA at senior institutions dropped slightly from the cumulative 2.97 at CCTC to 2.64, a change of 13 percent.

The cumulative GPA for female students at both CCTC and the senior institutions was higher than for males. Among the age groups transferring to senior institutions, the age group of less than 20 had the lowest GPA at both CCTC and the transferring institutions. And among the ethnic categories, the "other" minority group had the highest GPA at both CCTC and the receiving institutions.

In another attempt to analyze the academic success of CCTC transfer students, a Pearson correlation analysis was conducted to determine if variance in four-year GPA could be explained by variance in the GPA earned by CCTC students prior to transfer to senior institutions. GPA data was analyzed using the correlation procedure in SPSS and a two-tailed test of significance was performed. Table 10 and Figures 11 and 12 present the data on the correlation matrix. The results of the correlation analysis indicate that the GPA at CCTC for students transferring to senior institutions is positively related ($\alpha = 0.01$) to the GPA at senior institutions.

Further data analysis on the GPA statistics at CCTC and the senior institutions are depicted in Tables 11, 12, and 13.



Table 9. Cumulative GPA Comparison between CCTC and Senior Institutions for Students Transferring with 12 or More Credits (Academic Years 1993 through 1996)

| Student Group | Cumulative GPA at CCTC | Cumulative GPA at Senior Institution | First Semester GPA at Senior Institution* |
|------------------|------------------------------|--|---|
| All | 2.97 | 2.54 | 2.64 |
| Gender: | | | |
| Male | 2.96 | 2.48 | 2.70 |
| Female | 2.98 | 2.58 | 2.62 |
| Ethnicity: | | | |
| White | 3.05 | 2.59 | 2.79 |
| Black | 2.84 | 2.29 | 2.32 |
| Hispanic | 2.84 | 2.61 | 3.29 |
| Others | 3.07 | 2.77 | 2.73 |
| Age: | | | |
| < 20 | 2.56 | 1.90 | N/A |
| 20 - 29 | 2.90 | 2.31 | 2.32 |
| 30 - 39 | 3.09 | 2.79 | 2.93 |
| 40 - 49 | 3.02 | 2.61 | 2.58 |
| 50 + | 3.38 | 3.25 | 3.83 |

^{*} Less than 50% of the first semester GPA statistics were reported by senior institutions.



Figure 7. GPA of CCTC Students Prior to Transfer to Senior Institutions,
Based on Gender

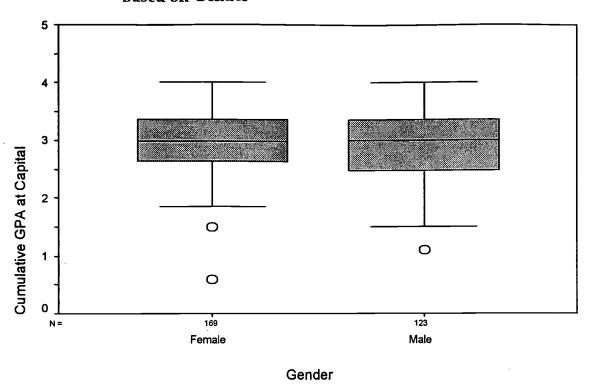


Figure 8. GPA of CCTC Students after Transfer to Senior Institutions, Based on Gender

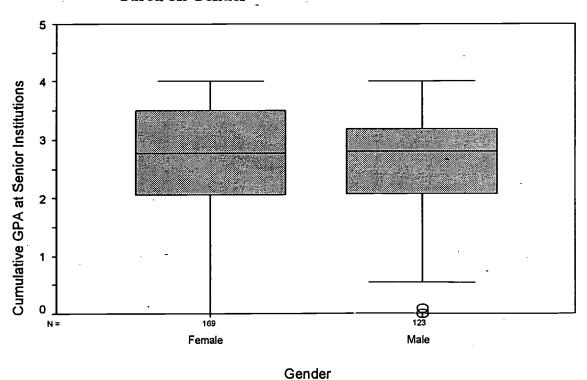




Figure 9. GPA of CCTC Students Prior to Transfer to Senior Institutions,
Based on Ethnicity

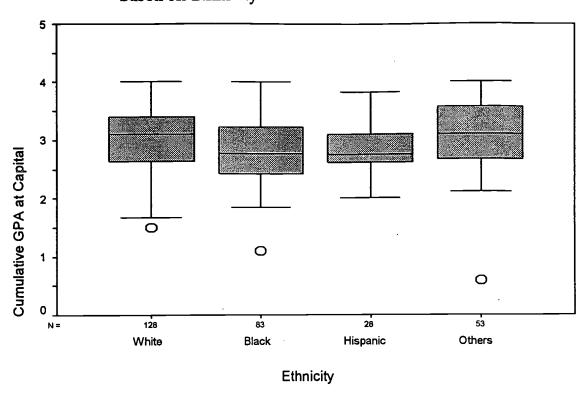
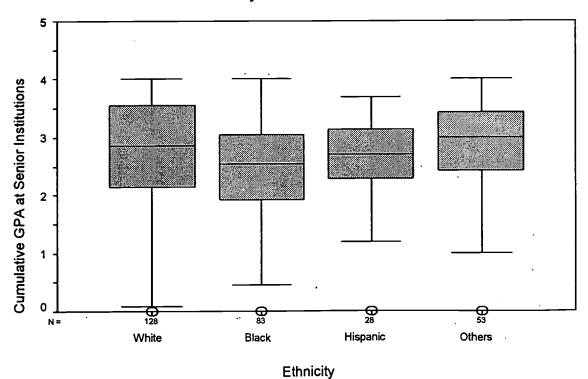


Figure 10. GPA of CCTC Students after Transfer to Senior Institutions, Based on Ethnicity





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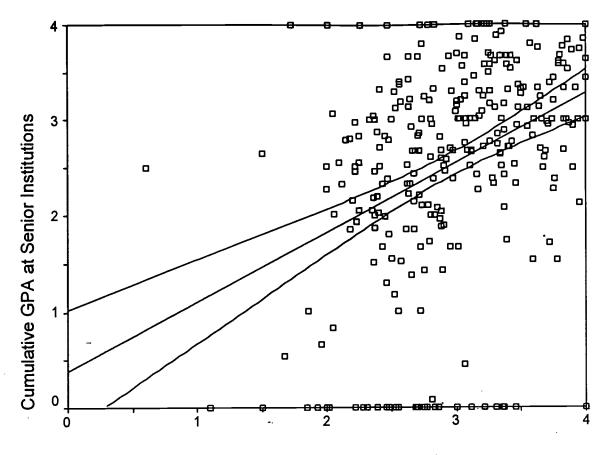
Table 10. Pearson Correlation Matrix of GPA of Transfer Students at CCTC and Senior Institutions (Academic Years 1993 through 1996)

| · | Overall GPA at Capital | First Semester GPA at Senior Institutions | Overall GPA at Senior Institutions |
|---|---------------------------|---|------------------------------------|
| Overall GPA at Capital | 1.000 | 0.428* | 0.367* |
| First Semester GPA at Senior Institutions | 0.428* | 1.000 | N/A |
| Overall GPA at Senior Institutions | 0.367* | N/A | 1.000 |

Correlation was significant at the 0.01 level (two-tailed).



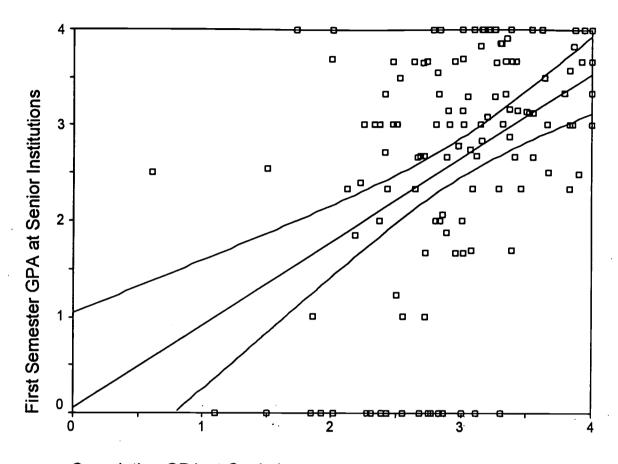
Figure 11. Correlation between the Cumulative GPA at Capital and the Cumulative GPA at Senior Institutions



Cumulative GPA at Capital



Figure 12. Correlation between the Cumulative GPA at Capital and the First Semester GPA at Senior Institutions



Cumulative GPA at Capital



Table 11. GPA Statistics of Former CCTC Students (at CCTC) who
Transferred to Senior Institutions with 12 or More Credits
(Academic Years 1993 through 1996)

| Major | Mean | Minimum | Maximum | Standard Deviation* |
|--|-------|---------|---------|------------------------|
| Accounting | 3.088 | 2.173 | 3.943 | 0.527 |
| Accounting Certificate | 3.312 | 3.312 | 3.312 | - |
| Administrative Assistant | 2.466 | 2.466 | 2.466 | - |
| Allied Health Administration | 3.427 | 3.244 | 3.566 | 0.165 |
| Architectural Engineering Technology | 2.792 | 2.000 | 3.373 | 0.531 |
| Business Management | 2.666 | 2.100 | 3.175 | 0.470 |
| Chemical Engineering Technology | 3.404 | 3.025 | 3.887 | 0.316 |
| Civil Engineering Technology | 3.029 | 2.218 | 3.801 | 0.608 |
| Computer Engineering Technology | 2.901 | 2.566 | 3.333 | 0.323 |
| Computer Programming | 3.300 | 3.300 | 3.300 | - |
| Data Processing | 3.127 | 1.848 | 4.000 | 0.653 |
| Data Processing Technology | 3.762 | 3.762 | 3.762 | - |
| Early Childhood Education | 3.135 | 2.776 | 3.830 | 0.602 |
| Electrical & Comp Engineering Technology | 1.100 | 1.100 | 1.100 | - |
| Electrical Engineering Technology | 3.067 | 2.016 | 4.000 | 0.590 |
| EMT/Paramedic Certificate | 2.730 | 2.730 | 2.730 | <u>-</u> |
| Executive Secretary | 2.428 | 2.428 | 2.428 | - |
| General Studies | 2.464 | 2.464 | 2.464 | - |
| Liberal Arts | 2.955 | 1.671 | 3.982 | 0.556 |
| Management | 3.002 | 2.325 | 3.746 | 0.576 |
| Manufacturing Engineering Technology | 3.087 | 2.050 | 3.815 | 0.569 |
| Marketing Management | 3.190 | 3.190 | 3.190 | - |
| Mechanical Engineering Technology | 2.936 | 2.045 | 3.647 | 0.629 |
| Non-Degree | 3.038 | 1.929 | 3.895 | 0.497 |
| Nursing | 2.859 | 2.010 | 4.000 | 0.411 |
| Office Administration | 2.519 | 2.219 | 2.818 | 0.424 |
| Professional Secretary | 3.685 | 3.685 | 3.685 | - |
| Radiology Technology | 3.315 | 3.010 | 3.620 | 0.431 |

 ⁻ indicates one student in the database.



Table 12. Senior Institution GPA Statistics of Former CCTC Students who Transferred with 12 or More Credits (Academic Years 1993 through 1996)

Standard Minimum Maximum Deviation* Mean Major 3.860 0.565 2.763 1.940 Accounting 0.989 3.588 2.190 2.889 Anthropology 0.000 0.000 0.000 Architectural Engineering Technician 3.070 0.389 2.795 2.520 Art/Design 3.570 1.359 2.332 0.000 Biology 3.500 3.800 0.151 3.640 BioMedTc 3.300 3.300 3.300 **Business Administration - Financial** 3.560 0.389 3.285 3.010 Business Administration - Management Business Administration - Marketing 3.300 3.300 3.300 3.000 3.000 3.000 ChemCSci 1.780 0.000 3.210 1.635 Chemistry 3.740 0.141 3.640 3.540 Chemistry Clin 3.170 3.170 3.170 Civil Engineering 0.290 3.390 3.067 2.830 Civil Engineering Technology 0.481 2.530 2.190 1.850 Communication 3.444 0.966 2.045 0.000 Computer Science 3.590 3.590 3.590 Early Childhood Education 2.963 0.457 2.050 2.514 **Economics** 0.956 4.000 2.917 1.670 **Economics & Finance** 2.429 2.429 2.429 **Education-History Coordinate** 1.471 1.040 0.000 2.080 **Electrical Engineering** 1.000 1.000 1.000 Electronic Engineering Technician 3.170 3.170 3.170 **Elementary Education** 2.689 2.689 2.689 Engineering 3.300 0.127 3.210 3.120 **English** 2.940 0.587 2.525 2.110 English EL 2.960 2.960. 2.960 FA/Theater 0.389 2.680 2.405 2.130 Finance 1.850 1.850 1.850 General Studies/Basic Studies 3.250 3.250 3.250 Geography/Pln 1.648 2.715 1.550 3.880 **GST** 0.594 3.420 3.000 3.840 Health Science 2.535 2.520 2.550 0.021 History 2.840 2.840 2.840 Human Services



Standard Maximum Deviation* Minimum Mean Major 3.310 3.310 3.310 Int Business 2.518 Interdisciplinary Student Designed 2.518 2.518 3.690 0.693 2.020 3.042 IT-Construction 0.303 2.430 3.130 2.842 IT-Electrical 3.570 0.615 2.700 IT-OccSa 3.135 4.000 4.000 4.000 Italian 2.330 2.330 0.000 2.330 **Legal Studies** 3.670 1.114 0.000 2.007 Management 3.770 0.867 3.007 1.430 Manufacturing Engineering 0.522 2.280 3.540 2.947 Marketing 2.550 1.803 0.000 1.275 Math 2.010 2.010 2.010 Math EL 0.146 3.320 3.610 3.457 Math/Accounting 0.778 1.520 3.430 Mechanical Engineering Technology 2.812 3.000 0.265 2.440 2.835 **MIS** 1.432 4.000 2.532 0.000 Non-Matriculated 0.980 4.000 2.960 0.000 Nursing 2.770 2.770 2.770 PE Coach 3.760 3.760 3.760 PE School 0.474 3.000 2.665 2.330 Political Science 0.874 0.633 0.000 2.100 Pre-Business 0.540 0.540 0.540 Pre-Communication 1.377 4.000 2.214 0.000 Psychology 2.520 2.520 2.520 Psychology & Communication 3.141 3.141 3.141 Religion 1.000 1.000 1.000 Respiratory Therapy 3.030 3.030 3.030 Social Science 0.427 3.080 2.790 3.570 Social Work 0.789 3.000 2.113 0.660 Sociology 3.250 3.250 3.250 Span Elem 2.930 3.090 0.113 3.010 Spanish 2.470 2.470 2.470 Special Education 3.140 3.140 3.140 Specialized Studies 4.000 4.000 4.000 Women's Studies



indicates one student in database.

Table 13. Senior Institution First Semester GPA Statistics of Former CCTC Students who Transferred with 12 or More Credits (Academic Years 1993 through 1996)

Standard Minimum* Maximum* Deviation** Major 3.700 3.700 3.700 Accounting 3.333 3.333 3.333 Anthropology 0.000 Architectural Engineering Technician 0.000 0.000 Art/Design 1.705 1.953 0.000 3.148 Biology BioMedTc 3.300 3.300 Business Administration - Financial 3.300 1.700 3.300 1.131 Business Administration - Management 2.500 Business Administration - Marketing 3.500 3.500 3.500 ChemCSci Chemistry Chemistry Clin 3.160 3.160 3.160 Civil Engineering Civil Engineering Technology -Communication 3.333 0.623 2.720 1.880 Computer Science 3.580 3.580 · Early Childhood Education 3.580 4.000 4.000 4.000 **Economics** 0.956 Economics & Finance 2.917 1.670 4.000 2.833 2.833 2.833 **Education-History Coordinate** 1.464 0.000 2.070 1.035 Electrical Engineering 1.000 1.000 1.000 Electronic Engineering Technician **Elementary Education** 2.333 2.333 2.333 Engineering English English EL FA/Theater Finance 1.850 1.850 1.850 General Studies/Basic Studies Geography/Pln 1.853 2.540 1.230 3.850 GST 0.587 3.415 3.000 3.830 Health Science History



Standard Major Mean* Minimum* Maximum* Deviation** **Human Services** 3.000 3.000 3.000 Int Business Interdisciplinary Student Designed 3.000 3.000 3.000 IT-Construction IT-Electrical IT-OccSa Italian Legal Studies 2.330 2.330 2.330 0.000 Management 2.904 3.670 1.670 0.828 Manufacturing Engineering Technology Marketing 3.203 2.880 3.700 0.351 Math Math EL Math/Accounting Mechanical Engineering Technology MIS Non-Matriculated 2.523 0.000 4.000 1.457 Nursing 3.070 0.000 4.000 1.162 PE Coach PE School Political Science 2.330 2.330 2.330 Pre-Business Pre-Communication Psychology 0.000 0.000 0.000 Psychology & Communication 2.400 2.400 2.400 Religion 3.500 3.500 3.500 Respiratory Therapy 1.000 1.000 1.000 Social Science Social Work Sociology 2.667 2.667 2.667 Span Elem Spanish Special Education Specialized Studies Women's Studies 4.000 4.000 4.000



^{* -} indicates senior institution did not supply adequate data.

^{** -} indicates one student in database.

Q10. What is the credit hour completion pattern of former CCTC students after transferring to senior institutions?

Table 14 presents data on the number of credit hours earned by former CCTC students after transferring to senior institutions. There was considerable variability in the number of credit hours completed by former CCTC students at senior institutions. Approximately 45.6 percent of the students had earned less than 12 credit hours and only 16.1 percent of the students had earned over 60 credit hours at the senior institutions.

Table 14. Credit Hours Earned by Former CCTC Students (292) after
Transfer to Senior Institutions
(Academic Years 1993 through 1996)

| Student | Totals | | | C | redit Hou | | | |
|------------|--------|-----------|--------|---------|-----------|---------|---------|-------------|
| Group | | 6 or less | 7 - 12 | 13 - 24 | 25 - 36 | 37 - 48 | 49 - 60 | 61 + |
| All | 100.0 | 35.3 | 10.3 | 13.4 | 8.9 | 6.8 | 9.2 | 16.1 |
| Gender: | | | | | | | | |
| Male | 42.1 | 11.6 | 5.8 | 6.2 | 3.4 | 3.1 | 4.1 | 7 .9 |
| Female | 57.9 | 23.6 | 4.5 | 7.2 | 5.5 | 3.8 | 5.1 | 8.2 |
| Ethnicity: | | | _ | | | | | |
| White | 43.8 | 18.2 | 3.4 | 4.1 | 3.1 | 3.1 | 5.1 | 6.8 |
| Black | 28.4 | 10.6 | 3.4 | 4.8 | 3.8 | 1.4 | 1.4 | 3.1 |
| Hispanic | 9.6 | 1.4 | 0.7 | 3.1 | 1.0 | 0.7 | 0.7 | 2.1 |
| Others | 18.2 | 5.1 | 2.7 | 1.4 | 1.0 | 1.7 | 2.1 | 4.1 |
| Age:* | | | | | | | | |
| < 20 | 1.1 | 0.0 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.4 |
| 20 - 29 | 51.8 | 12.7 | 7.2 | 7.2 | 4.3 | 4.3 | 5.1 | 10.9 |
| 30 - 39 | 33.3 | 12.7 | 2.5 | 4.3 | 3.6 | 2.5 | 4,0 | 3.6 |
| 40 - 49 | 12.0 | 7.6 | 0.0 | 1.4 | 0.4 | 0.0 | 0.7 | 1.8 |
| 50 + | 1.8 | 1.1 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |

^{* 16 (5.5%)} of the students are of unknown age and not included in the age section of this table.



Q11. How do former CCTC students rate the quality of academic and student services at CCTC?

This was a self-reported questionnaire which was sent to the former CCTC students in the second phase of this study. The purpose of the questionnaire was two fold: 1) to examine the students' goals and to measure the extent to which they have achieved their goals; 2) to gather information on the students' perceptions of their satisfaction with the quality of academic and student services offered at CCTC. Tables 15 and 16 depict the data on the student's perceptions of the CCTC services. The following is a summary of the findings:

Services that received the highest ratings by former CCTC students:

(Percentage of students who perceived the services as Excellent or Good)

Student Services

| | Grade reporting / Transcript processing | 80.6% |
|-------|---|-------|
| | Business and Administrative services | 70.2% |
| | Registration process | 69.0% |
| | Learning Resource Center (Library) | 65.7% |
| Acade | emic Services | |
| | Content of courses | 88.3% |
| | Overall quality of instruction in my curriculum | 87.3% |
| | Overall quality of instruction at the college | 87.2% |
| | Faculty performance in classroom | 85.1% |
| | Faculty/student class interaction | 80.2% |

Services that received the lowest ratings by former CCTC students:

(Percentage of students who perceived the service as Fair or Poor)

Student Services

| Counseling for program/course selection | 31.7% |
|---|-------|
| Registration process | 30.9% |
| Academic Services | |
| Instructional support for my curriculum | 27.2% |
| Instructional support for my major | 24.2% |

Services that students did not utilize:

(Percentage of students who Did Not Use the service)

Student Services

| Intramural sports | 77.9% |
|----------------------------------|-------|
| Counseling for personal problems | 74.0% |
| Extracurricular activities | 65.3% |
| Assistance in finding employment | 63.8% |
| Student organizations | 63.2% |
| demic Services | |

Academic Services

Tutorial services/learning assistance 46.8%



Table 15. Perceptions of Former CCTC Students on the Quality of Student Services Provided by CCTC

Did Poor Not Use **Excellent Good** Fair **Student Services** 54.6 23.7 7.2 0.0 14.4 Registration process 18.1 2.1 9.6 14.9 55.3 **Business and Administrative services** 9.3 5.2 51.5 20.6 Financial Aid Assistance 13.4 19.1 2.1 21.3 College Publications 11.7 45.7 22.7 1.0 51.5 17.5 7.2 **Student Orientation Class** Grade reporting/Transcript processing 14.3 5.1 0.0 52.0 28.6 Learning Resource Center (Library) 18.8 4.2 11.5 46.9 18.8 8.2 17.3 23.5 Counseling for program/course selection 31.6 19.4 74.0 9.4 2.1 Counseling for personal problems 5.2 9.4 13.7 1.1 63.2 6.3 15.8 Student organizations 11.6 77.9 6.3 3.2 1.1 **Intramural sports** 9.5 65.3 15.8 2.1 7.4 Extracurricular activities 5.3 57.9 17.9 13.7 Availability of cultural activities 5.3 9.6 11.7 63.8 Assistance in finding employment 6.4 8.5 3.1 34.4 29.2 14.6 18.8 Graduation process 5.3 39.8 27.3 **15.8 11.8** Overall

Table 16. Perceptions of Former CCTC Students on the Quality of Academic Services Provided by CCTC

| | | | | | Did |
|---|-----------|------|------|------|---------|
| Academic Services | Excellent | Good | Fair | Poor | Not Use |
| Academic advisement provided by faculty | 24.5 | 38.3 | 14.9 | 4.3 | 18.1 |
| Content of courses | 23.4 | 64.9 | 6.4 | 4.3 | 1.1 |
| Developmental courses | 9.9 | 54.9 | 11.0 | 1.1 | 23.1 |
| Instructional support for my curriculum | 14.1 | 41.3 | 25.0 | 2.2 | 17.4 |
| Instructional support for my major | 16.5 | 40.7 | 20.9 | 3.3 | 18.7 |
| Computer laboratories | 18.1 | 39.4 | 13.8 | 4.3 | 24.5 |
| Tutorial services/learning assistance | 18.1 | 24.5 | 7.4 | 3.2 | 46.8 |
| Testing and grading practices of faculty | 21.1 | 57.9 | 16.8 | 2.1 | 2.1 |
| Faculty/student class interaction | 28.1 | 52.1 | 15.6 | 2.1 | 2.1 |
| Faculty performance in the classroom | 28.7 | 56.4 | 12.8 | 1.1 | 1.1 |
| Overall quality of instruction in my curriculum | 28.4 | 58.9 | 10.5 | 1.1 | 1.1 |
| Overall quality of instruction at the college | 26.6 | 60.6 | 11.7 | 1.1 | 0.0 |
| | | | | | |
| Overall | 21.5 | 49.2 | 13.9 | 2.5_ | 12.9 |



Q12. Does gender or ethnicity make a difference in the academic achievement of students who transfer to four-year institutions?

Table 17 presents data on the academic achievement, based on GPA, of former CCTC students who transferred to senior institutions. Overall, female students had slightly higher GPAs than male students both at CCTC and the senior institutions. However, no particular ethnic group outranked all the others. For male students, those in the "other" category did best at CCTC, while Hispanics did the best at senior institutions. As for females, White students did the best at CCTC, while those in the "other" category did the best at senior institutions.

Table 17. GPA Pattern of Former CCTC Students (292) who Transferred to Senior Institutions (Academic Years 1993 through 1996)

| Gender | Ethnicity | Average GPA at CCTC | Average GPA at 4-year |
|--------|-----------|------------------------|--------------------------|
| Male | | 2.95 | 2.49 |
| _ | White | 2.96 | 2.48 |
| | Black | 2.86 | 2.29 |
| | Hispanic | 2.89 | 2.73 |
| | Other | 3.06 | 2.67 |
| Female | | 2.97 | 2.56 |
| | White | 3.08 | 2.66 |
| | Black | 2.85 | 2.29 |
| | Hispanic | 2.83 | 2.54 |
| | Other | 3.05 | 2.86 |

Conclusion:

The results of this research indicated that of the total CCTC transfer students reported by senior institutions during the academic years 1993 through 1996, approximately 38.4 percent were male and 61.6 percent female. The ethnic background of the transfer students was reported as 45.0 percent White, 28.7 percent Black, 9.9 percent Hispanic, 8.6 percent others, and 7.8 percent of unknown category. Except for the "other" ethnic category, female students transferring to senior institutions have outnumbered male students. The percentage of Hispanic students who transferred was proportionally lower than the percentage of headcount enrollment among all ethnic groups, followed by Black students. The result of the data analysis indicated that a significant proportion of the students (81.6%) who transferred to senior institutions were between the ages of 20 and 39 years old.

Central Connecticut State University reported the highest number of transfers (49.4 percent), followed by University of Hartford (30.0 percent), Regents College (10.1 percent), Trinity College (5.0 percent), Teikyo Post University (2.6 percent), Albertus Magnus College (1.3 percent), Sacred Heart University (0.4 percent), Columbia University (0.4 percent), Wesleyan University (0.2 percent), University of Massachusetts at Amherst (0.2 percent), University of Bridgeport (0.2 percent), and State University of New York at Buffalo (0.2 percent).

Transfer students' exposure to Capital Community-Technical College was substantial. Approximately 3.1 percent of students had earned less than 6 credit hours and 58.9 percent of students had earned over 60 credit hours at CCTC prior to transfer. Fewer than 8.2 percent had earned less than 12 credit hours and a significant proportion of students (20.5 percent) had earned 80 or more credit hours - well beyond the minimum requirement for graduation in the Associate degree program at CCTC. The modal observation for the number of earned credit hours was between 60 and 79.

Overall, the number of transfer credits accepted by the senior institutions was lower than the number of credits earned at Capital Community-Technical College. The average number of credit hours accepted by senior institutions was 44 with a standard deviation of 29.1 compared to the average number of credit hours completed prior to transfer was 60 with a standard deviation of 29.4. This constitutes an average loss of 16 credit hours of community college course work.

Approximately 60 percent of the students who transferred to senior institutions had matriculated in five academic majors and slightly less than 18 percent of transfer students had enrolled in a non-degree status while attending Capital. The highest percentage of students who transferred to senior institutions were matriculated in the following majors: Liberal Arts (31.9 percent), Nursing (15.1 percent), Accounting (4.5 percent), and Data Processing (4.5 percent).

Of the 464 students who were reported in our transfer database, 242 (52.2 percent) had graduated from CCTC in a certificate or associate's degree program prior to transfer. Approximately three-fourths (76.4 percent) of the students who graduated from CCTC prior to transferring to senior institutions were matriculated in the following majors: Liberal Arts; Nursing; Electrical Engineering Technology; Accounting; Data Processing; Manufacturing Engineering Technology.

Female graduates who transferred outnumbered male by approximately 60 to 40. Also, the percentage of white students (39.7 percent) who graduated prior to transfer was greater than the percentage of Black students (30.6 percent), followed by Hispanic students (10.3 percent).



Overall, the students achieved grades well above passing levels at both CCTC and the transferring institutions. As a group, they achieved an overall GPA of 2.97 at CCTC compared to an overall GPA of 2.54 at the senior institutions. In addition, their overall first semester GPA at senior institutions dropped slightly from the cumulative 2.97 at CCTC to 2.64, a change of 13 percent. The cumulative GPA for female students at CCTC and the senior institutions was higher than male. The result of the correlation analysis indicated that the GPA at CCTC for students transferring to senior institutions is positively correlated (at the level of $\alpha = 0.01$) to the GPA at senior institutions.

Of the total number of students (101) who participated in the second phase of this study, 71.3 percent indicated that their intended educational goal at the time they enrolled at CCTC was to obtain an Associate degree and 36.6 percent indicated that they intended to prepare for transfer to another college. It is important to note that 93.1 percent of the former CCTC students who transferred to senior institutions acknowledged that they have met their educational goals to some extent (31.7 percent), or to a great extent (61.4 percent).

Finally, the following services received the highest ratings by former CCTC students: (Percentage of students who perceived the services as Excellent or Good)

| Ω. | | | ~ | • |
|------|-----|----|------|-------|
| STIL | nen | 17 | Nor. | vices |
| | | | | |

| Grade reporting / Transcript processing | 80.6% |
|---|--------|
| Business and Administrative services | 70.2% |
| Registration Process | 69.0% |
| Learning Resource Center (Library) | 65.7% |
| Academic Services | |
| Content of courses | 88.3% |
| Overall quality of instruction in my curriculum | 87.3% |
| Overall quality of instruction at the college | 87.2% |
| Faculty performance in classroom | 85.1% |
| Faculty/student class interaction | 80.29/ |

The following services received the lowest ratings by former CCTC students: (Percentage of students who perceived the service as Fair or Poor)

Student Services

| Counseling for program/course selection | 31.7% |
|---|--------|
| Registration process | 30.9% |
| Academic Services | 30.570 |
| Instructional support for my curriculum | 27.2% |
| Instructional support for my major | 24.2% |
| vices that students did | , 0 |

Services that students did not utilize:

(Percentage of students who Did Not Use the service)

Student Services

| Intramural sports | 77.9% |
|----------------------------------|--------|
| Counseling for personal problems | 74.0% |
| Extracurricular activities | 65.3% |
| Assistance in finding employment | 63.8% |
| Student organizations | 63.2% |
| cademic Services | 33.270 |

Ac

Tutorial services/learning assistance 46.8%



Appendix A Capital Community-Technical College Mission Statement, 1997

Capital Community-Technical College, located in the center of Hartford, is a public, open-door, educational institution rooted in the metropolitan community it serves. Its mission is to provide continually evolving higher education and lifelong learning to people of diverse cultures, abilities, and ages, and to serve the needs of community and government agencies, business, and industry.

The college fulfills its mission by:

- Offering associate degree and certificate programs, and workforce training to prepare individuals for transfer education, career opportunities, and lifelong learning;
- Providing programs and student support services that enable students to develop learning and critical thinking skills, self-confidence, personal growth, and cultural enrichment;
- Maintaining an environment committed to learning and teaching, the collegial process, and the respectful and vigorous dialogue which nourishes active participation and service in contemporary society.

Approved by the Strategic Planning Committee, November 4, 1997



Appendix B Data on Senior Institutions to which Survey Requests Were Sent

Of the fifty-eight senior institutions that were contacted, 31 did not reply, 14 replied but did not have any enrollees, 4 replied but did not provide sufficient usable data, and 9 institutions replied with sufficient data.

No Reply: (31)

Bates College

Bay Path

Becker College Briarwood College

Cornell University

Eastern Connecticut State University

Endicott College Fairfield University

Johnson and Wales University

Lesley College

Massachusetts Maritime Academy

Mount Holyoke

New Hampshire College

Newbury College Paier College of Art Quinnipiac College Rivier College

Roger Williams University

Smith College

Southern Connecticut State University

Springfield College

St. Joseph's College (ME)

St. Joseph College

State University of New York
University of Connecticut at Storrs

University of Maine

University of Massachusetts at Lowell

University of New Haven

Wentworth Institute of Technology Western New England College

Western Connecticut State University

Replied, but no enrollees: (14)

Boston University Connecticut College Harvard University Fine Manor College

Regis College

Rensselaer Polytechnic Institute

Seton Hall University

State University of NY at Albany
State University of NY at Binghamton

Unity College

University of Rhode Island University of South Dakota Worcester Polytech Institute

Yale

Replied, but did not provide sufficient data: (4)

Charter Oak State College Columbia University Regents College Sacred Heart University



Replied, with sufficient data: (9)

Albertus Magnus College
Central Connecticut State University
State University of NY at Buffalo
Teikyo Post University
Trinity College
University of Bridgeport
University of Hartford
University of Massachusetts at Amherst
Wesleyan University





Office of the President

Woodland Campus 61 Woodland Street Hartford, CT 06105-2354 (203) 520-7801 FAX 520-7911 Capital Community-Technical College is currently conducting a research study designed to track students who transfer to four-year institutions. It is important that we be able to identify CCTC students who transferred to your institution in the past three years - Fall 1993 through Fall 1996. We would appreciate your passing this request along to your research office or to the person who can provide any or all of the following information to us regarding former CCTC students. The information will be kept confidential and will be used only for research purposes at CCTC. You may provide the data in dBase 3+ or ASCII format, or even as copies of student transcripts.

- 1. Name
- 2. Social Security Number
- 3. Current Address
- 4. First semester enrolled at your college
- 5. Class status at time of enrollment (Freshman, Sophomore, Junior, Senior)
- 6. Major field of study at your college (CIP Code)
- 7. First semester GPA at the college
- 8. Cumulative GPA at the college
- 9. Number of hours accepted from CCTC
- 10. Number of hours attempted at your college
- 11. Number of hours completed at the college
- 12. Number of students who applied but were not accepted by your college.

Thank you for your assistance in this matter. We will be happy to share the results of our study with you. Please call me if you have any questions.

Flatbush Campus 401 Flatbush Avenue Hartford, CT 06106-3798 FAX 987-4806

A Member of the Connecticut Community-Technical College System



Appendix D Questionnaire which Was Sent to Former CCTC Students Who Transferred to Senior Institutions

CAPITAL COMMUNITY-TECHNICAL COLLEGE TRANSFER SURVEY

July 1997

Directions: Please use any soft-lead pencil to fill in the blanks indicating your responses. Some items may not apply to you. If you wish to change your response, erase your first mark and then mark the correct response. Unless directed to mark more than one response, select only one response for each item.

| 1. | What was your intended educational goal at | 2. | Amount of education planned for |
|----|--|----------|-----------------------------------|
| | the time you initially enrolled at CCTC? | | the future? |
| | (Choose all that apply.) | | |
| | To obtain an Associate Degree | | Ph.D. and higher |
| | To obtain a certificate degree | | Master's degree |
| | To prepare for transfer to another college | | Bachelor's degree |
| | To complete a Vocation/Technical Program | | Associate degree |
| | To obtain or maintain a certification | | Professional degrees and diplomas |
| | To take some job-related courses | | None |
| | To take some courses for personal satisfaction | | Others (please specify) |
| | Others (please specify) | | |
| 3. | To what extent have you achieved your educate | ional go | al (s)? |
| | To a great extent | J | • |
| | To some extent | | |
| | Uncertain | | |
| | Hardly at all | | |
| | Not at all | | · |
| | -· | | |

4. Please rate the quality of each of the following aspects of your CCTC experience. Circle only one answer for each item.

| A. Student Services | Excellent | Good | Fair | Poor | Did Not Use |
|---|-----------|------|------|-------|----------------|
| Registration process | (4) | (3) | (2) | (1) | (0) |
| Business & Administrative services | (4) | (3) | (2) | (1) | (0) |
| Financial Aid Assistance | (4) | (3) | (2) | (1) | (0) |
| College Publications | (4) | (3) | (2) | (1) | (0) |
| Student Orientation Class | (4) | (3) | (2) | (1) | (0) |
| Grade reporting/transcript processing | (4) | (3) | (2) | (1) | (0) |
| Learning Resource Center (Library) | (4) | (3) | (2) | (1) | (0) |
| Counseling for Program/course selection | (4) | (3) | (2) | (1) | (0) |
| Counseling for personal problems | (4) | (3) | (2) | (1) | . (0) |
| Student organizations | (4) | (3) | (2) | (1) | (0) |
| Intramural Sports | (4) | (3) | (2) | (1) | (0) |
| Extracurricular Activities | (4) | (3) | (2) | (1) | (0) |
| Availability of Cultural Activities | (4) | (3) | (2) | · (1) | (0) |
| Assistance in finding employment | (4) | (3) | (2) | . (1) | (0) |
| Graduation Process | (4) | (3) | (2) | (1) | (0) |



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TRANSFER SURVEY July 1997

| B. Academic Services | Excellent | Good | Fair _ | Poor | Did Not Use |
|---|-----------|------|-----------|------|----------------|
| Academic advisement provided by faculty | (4) | (3) | (2) | (1) | (0) |
| Content of courses | (4) | (3) | (2) | (1) | (0) |
| Developmental courses | (4) | (3) | (2) | (1) | (0) |
| Instructional Support for my curriculum | (4) | (3) | (2) | (1) | (0) |
| Instructional Support for my Major | (4) | (3) | (2) | (1) | (0) |
| Computer Laboratories | (4) | (3) | (2) | (1) | (0) |
| Tutorial services/learning assistance | (4) | (3) | . (2) | (1) | (0) |
| Testing and grading practices of faculty | (4) | (3) | (2) | (1) | (0) |
| Faculty/student class interaction | (4) | (3) | (2) | (1) | (0) |
| Faculty performance in classroom | (4) | (3) | (2) | (1) | (0) |
| Overall quality of instruction in my curriculum | (4) | (3) | (2) | (1) | (0) |
| Overall quality of instruction at the college | (4) | (3) | (2) | (1) | (0) |

The faculty of Capital Community Technical college would appreciate it if you could take an extra minute to make any comments concerning the strengths and weaknesses of curricula and services offered at CCTC. Please feel free to write comments in the following space. Thank you for participating in this research.



Appendix E List of Majors Offered at CCTC

| Curriculum Cod | Definition |
|------------------|--|
| 000300 | Accounting |
| 000502 | Business Administration: Management |
| 000508 | Business Administration: Accounting |
| 000514 | Business Administration: Health Care Administration |
| 000516 | Business Administration: Data Processing Opt |
| 000530 | Business Administration: Data Processing |
| 000900 | Business Management |
| 000904 | Business Management: Administrative Assistant |
| 000905 | Business Management: Bank Management |
| 001100 | Secretarial Science: Executive Secretary Option |
| 001102 | Secretarial Science: Foreign Language |
| 001200 | Secretarial Science: Legal Secretary Option |
| 001800 | Secretarial Science: Medical Secretary Option |
| 002100 | Secretarial Science: Administrative Assistant |
| 002101 | Administrative Assistant: Information Processing |
| 002401 | Office Admin: Professional Secretary |
| 002402 | Office Admin: Word Information Processing Specialist |
| 002415 | Office Admin: Administrative Assistant Option |
| 002425 | Office Admin: Administrative Assistant |
| 005100 | Accounting Certificate |
| 005101 | Advanced Accounting Certificate |
| 005302 | Business Administration Management Certificate |
| 005702 | Marketing Certificate |
| 006002 | Secretarial Studies Intensive Certificate |
| 006438 | Office Admin: Administrative Assistant Certificate |
| 006500 | Clerk Typist Certificate |
| 008200 | Secretarial Science: Word Processing Certificate |
| 009205 | Accelerated Office Administrative Training Certificate |
| 009210 | Office Admin: Administrative Assistant Certificate |
| 010100 | Data Processing |
| 010101 | Computer Information Systems |
| 015100 | Computer Programming Certificate |
| 015108 | Accelerated Computer Programming Certificate |
| 015300 015305 | Microcomputer Certificate |
| 020200 | Accelerated Microcomputer Certificate |
| 020300 | Medical Laboratory Technician |
| 020500 | Radiology Technology |
| 020603 | Nursing Modical Assistant |
| 020803 | Medical Assistant |
| 021301 | Physical Therapist Assistant |
| 025100 | Pre-Allied Health Certificate |
| 023120 | Health Science Certificate |



| Curriculum Code | Definition | | |
|-----------------|--|--|--|
| 025400 | EMT/Paramedic Certificate | | |
| 025401 | EMT/Paramedic Degree | | |
| 025402 | EMT/Paramedic Certificate | | |
| 025606 | Medical Assisting Certificate | | |
| 050400 | Early Childhood Education | | |
| 051000 | Drug and Alcohol Rehabilitation Counselor | | |
| 051002 | Management of Substance Abuse Treatment Facilities | | |
| 051799 | Social Service | | |
| 051801 | Social Service: Law Enforcement Option | | |
| 056000 | Social Service Aide Certificate | | |
| 056300 | Early Childhood Education Certificate | | |
| 060100 | Liberal Arts & Sciences: General Studies Option | | |
| 060107 | Liberal Arts & Sciences: Music Option | | |
| 060197 | Liberal Arts | | |
| 060199 | Liberal Arts & Sciences | | |
| 060200 | General Studies · | | |
| 060221 | General Studies: Pre-Nursing Option | | |
| 065000 | Studio Arts Certificate | | |
| 065400 | Labor Studies Certificate | | |
| 070002 | Civil Engineering Technology: Structural | | |
| 070010 | Mechanical Engineer Technology: Mach Design | | |
| 070100 - | Chemical Engineering Technology | | |
| 070101 | Electrical Engineering Technology | | |
| 070102 | General Engineering Technology | | |
| 070103 | Manufacturing Engineering Technology | | |
| 070104 | Mechanical Engineering Technology | | |
| 070155 | Chemical Technology | | |
| 070156 | Chemical Technology: Biotechnology Option | | |
| 070310. | Data Processing Technology | | |
| 070330 | Computer Engineering Technology | | |
| 070331 | Electrical & Comp. Engineering Tech: Electrical Option | | |
| 070332 | Electrical & Comp. Engineering Tech: Computer Option | | |
| 070500 | Fire Technology & Administration | | |
| 071100 | Architectural Engineering Technology | | |
| 071200 | Civil Engineering Technology | | |
| 071700 | Building Facilities Technology | | |
| 073100 | Engineering Pathway Certificate | | |
| 073200 | Technology Pathway Certificate | | |
| 073400 | Technological Studies | | |
| 073401 | Engineering Science | | |
| 073421 | Technological Studies: Wastewater Option | | |
| 075000 | Basic Technology Certificate | | |
| 075401 | Wastewater Certificate | | |
| 075800 | Computer Technology Certificate | | |
| 075810 | Basic Computerized Business Operations Certificate | | |



| Curriculum Co | ie Definition |
|----------------|---|
| 075830 | Basic Microcomputer Maintenance Certificate |
| 075840 | Local Area Network Operations Certificate |
| 0 76100 | Industrial Electronics Certificate |
| 0769 10 | Computer-Aided Drafting Certificate |
| 076920 | Computer-Aided Manufacturing Certificate |
| 099995 | Spec/Non-Degree/Technology |
| 099996 | Spec/Non-Credit |
| 099998 | Spec/Non-Degree/Matriculated |
| 099999 | Spec/Non-Degree/Non-Matriculated |

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TRANSFER TO OTHER **INSTITUTIONS**

CCTC is especially proud of its programs for which credits are transferable to four-year institutions of higher education, both in and out of Connecticut.

Students planning to transfer to another institution are encouraged to consult with the admissions office of that institution and to seek the advice of a CCTC advisor and/or counselor.

TRANSFER TO THE CONNECTICUT STATE **UNIVERSITY SYSTEM**

Graduates of the Connecticut Community-Technical Colleges with a GPA of 2.0 or higher are guaranteed admission to the university of their choice within the Connecticut State University System.

Community-Technical College graduates admitted to the Connecticut State University of their choice shall be given the same consideration for admission to specific majors and admitted on the same terms as students who began their studies at the university. In the case of majors for which articulation agreements have been adopted, CTC students preparing for transfer should follow the terms of the articulation agreement regarding course prerequisites, grade point averages, and other requirements stated in the agreement.

Each University in the CSU System will apply to such graduates the same rules concerning the acceptability of "D" grades that it applies to its own students, i.e. as if such grades had been earned at the receiving univer-

Graduates of the Community-Technical Colleges will be admitted as juniors and will be expected to complete two years of full-time (or equivalent part-time) study at the university to be eligible for the bachelor's degree.

Graduates of the Community-Technical Colleges must make application by the date and on the forms prescribed by the university, including the submission of all the required transcripts, documents, and fees.

Approved by the CSU Board of Trustees

March 29, 1996

TRANSFER TO SAINT **IOSEPH COLLEGE**

Capital Community-Technical College and Saint Joseph College have agreed to expand opportunities for CCTC graduates of Associate of Arts and Associate of Science programs who transfer to the Women's College or the McAuley Weekend College of

CCTC graduates who have completed programs in Business Administration: Accounting or Management; Early Childhood Education; and Liberal Arts and Sciences and who are recommended by CCTC will be eligible to enter SJC with Junior standing and at least 54 and up to 61 semester hours of transfer credit Courses in basic skills or in disciplines not generally included in liberal arts programs may not be accepted for transfer. Courses taken at CCTC in programs other than those listed above might still be applicable toward degree programs at SJC. Interested students are advised to meet with a CCTC counselor.

ACADEMIC INFORMATION

STUDENT CLASSIFICATION

A full-time student is one who registers for 12 or more credits and/or effective credits per semester. All others are considered part-time. Both full- and part-time students may qualify for academic honors.

BASIC SKILLS PLACEMENT TESTING

To assure that students are adequately prepared for college-level courses, basic skills placement tests must be taken prior to registration. The results of these tests are used by the college staff to place students into appropriate courses. Exemptions from testing are detailed in appropriate material prior to each semester. The Counseling Center can provide more specific information. Students whose native language is other than English must take an ESL (English-asa-Second Language) test.

ACADEMIC ADVISING

The purpose of the Academic Advising Program is to provide students with information about courses, programs and careers to facilitate the fulfillment of their educational and career goals. Students who have completed the admissions procedures and are enrolled in a program, or who have indicated a program preference, or who have accumulated 18 credits, are assigned to an Academic Advisor early in their first semester of study. Students must meet with their Advisor in order to complete a Program Planning Worksheet and be eligible to take advantage of early registration. College Counselors will continue to assist students with personal issues and meet with students who have not been assigned an Advisor.

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